

## DRAFT Preliminary Assessment - Non-Refinery Sector

<u>POWER PLANTS</u>	# of Units	2011 Emissions (tpd)	2005 BARCT	2011 Emissions at 2005 BARCT (tpd)*	2013 BARCT under consideration	2011 Emissions at 2013 BARCT (tpd)	2023 Emissions at 2013 BARCT (tpd)
		a		b		c	d = c x GF
Boilers	16	0.44	7 ppm	0.68	2 ppm	0.21	0.24
Turbines/Duct Burners	21	0.83	No new level	1.50	No further control	1.50	1.72
ICEs	6	0.18	No new level	0.22	11 ppm	0.04	0.04
<b>TOTAL</b>	<b>43</b>	<b>1.45</b>		<b>2.40</b>		<b>1.76</b>	<b><u>2.01</u></b>
<u>NON-POWER PLANTS</u>							
Boilers	16	0.08	9-12 ppm	0.07	5 ppm	0.03	0.04
Heaters	3	0.01	60 ppm	0.01	No further control	0.01	0.01
Furnaces	12	0.79	RV	0.79	80% Reduction	0.30	0.44
Glass Melting Furnaces	3	0.41	RV	0.41	80% Reduction	0.08	0.10
Gas Turbines	20	1.93	No new level	1.36	2 ppm	0.19	0.22
ICEs	31	0.38	No new level	1.16	11 ppm	0.23	0.29
Cement Kilns/Dryers	4	1.61	RV	1.61	0.5 lb/ton	0.30	0.45
<b>TOTAL</b>	<b>89</b>	<b>5.21</b>		<b>5.41</b>		<b>1.13</b>	<b><u>1.55</u></b>
<b>TOTAL NON-REFINERY</b>	<b>132</b>	<b>6.67</b>		<b>7.81</b>		<b>2.88</b>	<b><u>3.56</u></b>

Note: The cost analysis for the 2013 BARCT standards under consideration is still ongoing and therefore, this assessment is subject to further analysis and refinement.

\*Permit Limit emission level used for 2011 calculated emissions for Power Plant boilers and turbines. Year 2000 ending emission factor used for 2011 calculated emissions (Column b) where no new level is listed for 2005 BARCT.